

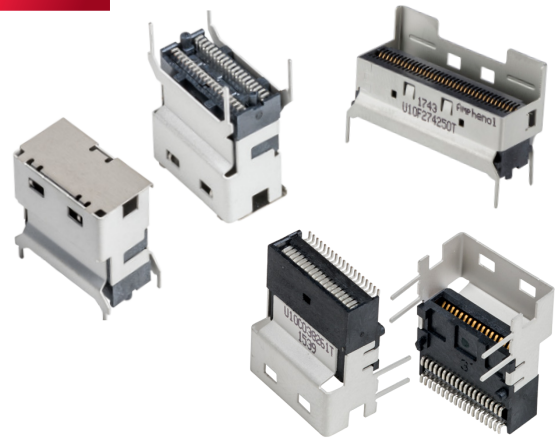
## SlimSAS™ Connectors – U10 Series

### PROVEN, HIGH SPEED, NEXT-GENERATION SAS-4 INTERFACE

SlimSAS™ connectors address issues in next-generation storage devices such as bulk cable form factor restrictions and the introduction of multi-lane storage devices.

SlimSAS™ connector is a 0.60mm pitch interconnect system which offers superior signal integrity performance over standard Mini-SAS solutions.

- Designed for unshielded, internal or external I/O connectors
- Compliant with T10/Serial Attached SCSI (SAS-4) standard
- Supports many assembly options

**NEW**


#### TARGET MARKETS



#### FEATURES

- High density connector
- 0.60mm pitch, 4x, 6x, 8x, 12x configurations
- 8x SlimSAS solution consumes the same area as 4x Mini-SAS HD
- Supports internal and external I/O applications
- Small Form Factor
- High data rate
- Low profile packaging
- Meets SAS 4.0, 24Gb/s specification
- Resonance dampening feature
- Supports many assembly options

#### BENEFITS

- Low profile connector saves space
- Complete interconnect solution for different applications
- Performance targeted for next-gen SAS 4.0 and PCIe Gen 4
- Receptacle mates pluggable modules
- Supports desired high speed design
- Meets next-generation industry standards
- Customized signal integrity specification and support NVLink 25G
- Supports blade and mainstream server designs

## TECHNICAL INFORMATION

### MATERIAL

- Housing: Black color, LCP, Lead Free Solder Reflow Process Compatible Thermoplastic
- Contact Base Material: Phosphor Bronze
- Contact Normal Force: 50g nominal
- Plating Solder Tails: Matte tin or Gold flash options
- Plating Mating Tails: Gold
- Resonance Dampening Feature: Conductive Polymer

### MECHANICAL PERFORMANCE

- Mating Force: 55.5 N max.
- Durability: 250 mating cycles min.
- Latch Retention Force: 50 N min.
- Insertion Force: 55.5 N
- Withdrawal Force: 49 N

### APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS
- Halogen-free

### PACKAGING

- Tape & Reel

### ELECTRICAL PERFORMANCE

- Voltage Rating: 30VDC per contact max.
- Current Rating: 0.5A per contact max.
- Differential Impedance:  $85\ \Omega \pm 10\ \Omega$

### ENVIRONMENTAL

- Operating Temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

### SPECIFICATION

- Amphenol Product Specification: SFF-8654

### TARGET MARKETS/APPLICATIONS



Data Center  
HBA (Host Bus Adapter) Servers  
RAIDS (Redundant Array of Individual Disks)  
Routers  
Switches  
Servers  
Storage Racks  
Storage Controllers

PART NUMBER SELECTOR

U10

—

X

0

XX

—

X

X

X

T

Style

|   |                 |
|---|-----------------|
| A | 8X Right Angle  |
| B | 8X Vertical     |
| C | 4X Right Angle  |
| D | 4X Vertical     |
| J | 12X Right Angle |
| K | 12X Vertical    |
| L | 6X Right Angle  |
| M | 6X Vertical     |

Impedance

|   |     |
|---|-----|
| 0 | 85Ω |
|---|-----|

Number of Positions

|    |         |
|----|---------|
| 38 | 28 Pins |
| 74 | 74 Pins |

Contact Plating

|   |                                          |
|---|------------------------------------------|
| 2 | 30 μ" (0.76 μm) Gold Plating over Nickel |
| 3 | 15 μ" (0.38 μm) Gold Plating over Nickel |

Tape & Reel

Option

|   |                        |
|---|------------------------|
| 0 | Standard               |
| 1 | No Resonance Dampening |
| A | Offset Latch Pins      |

Latch Anchor Option

|   |                                                   |
|---|---------------------------------------------------|
| 0 | Pin 1.5mm long, Right Angle                       |
| 1 | SMT                                               |
| 3 | Latch                                             |
| 4 | Pin 2.2mm long, Right Angle                       |
| 5 | Pin 3.0mm long, Right Angle                       |
| 6 | Pin 4.2mm long, Right Angle                       |
| 0 | Pin 1.5mm long, Pin inside footprint on Vertical  |
| 1 | SMT                                               |
| 2 | Pin 1.5mm long, Pin outside footprint on Vertical |
| 3 | No Latch                                          |
| 4 | Pin 2.2mm long, Pin outside footprint on Vertical |
| 5 | Pin 3.0mm long, Pin outside footprint on Vertical |
| 6 | Pin 4.2mm long, Pin outside footprint on Vertical |
| 7 | Pin 2.2mm long, Pin inside footprint on Vertical  |
| 8 | Pin 3.0mm long, Pin inside footprint on Vertical  |
| 9 | Pin 4.2mm long, Pin inside footprint on Vertical  |